

20010411.qrp v02_n156.qrl.20010411

Date: Wed, 11 Apr 2001 19:03:15 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2156

QRP-L Digest 2156

Topics covered in this issue include:

- 1) [96106] Solar activity 10APR01
by "Paul Harden, NA5N" <na5n@rt66.com>
- 2) [96107] ArkieCon Report: Late and too long ...
by Nick Kennedy <nkennedy@tcainternet.com>
- 3) [96108] FS: Wilderness BuzzNot Kit
by "Rod Cerkoney" <n0rc@hotmail.com>
- 4) [96109] Post-Hamfest sale
by Goemans <jgoemans@facstaff.wisc.edu>
- 5) [96110] Pi network spreadsheet (Excel)
by "Phil (VA3UX)" <phil@vaxxine.com>
- 6) [96111] Re: What are the ladder line and twinlead losses?
by Russ Dow <n7dw@pacbell.net>
- 7) [96112] Harbor Freight
by Richard Arland <rarland@earthlink.net>
- 8) [96113] RE: ladder line in the rain. what goes
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 9) [96114] RE: ladder line in the rain. what goes
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 10) [96115] 12v Gelcel Charger Circuit
by "Jim Thiessen" <jthiessen@videotron.ca>
- 11) [96116] RE: FS: B&W AP-10 Portable Antenna
by Dave Redfearn <n4elm@home.com>
- 12) [96117] Great ONLINE Transistor database
by "Ed Tanton" <n4xy@att.net>
- 13) [96118] Open Petition for QRPTTF Monolith status
by FrConrad@aol.com
- 14) [96119] Re: Question:General license / callsign options
by hamjoel@juno.com
- 15) [96120] Re: Wilderness BuzzNot Kit
by "Rod Cerkoney" <n0rc@hotmail.com>
- 16) [96121] Audio Oscillator using Sound Card
by Fran Flynn <fflynn@adelphia.net>
- 17) [96122] "Making Verticals Quieter"
by Pete Burbank <plburbank@kih.net>
- 18) [96123] FS Paddlette KP-4 key/keyer combo
by Patrick Armstrong <aa7fg@gte.net>
- 19) [96124] Re: Question: General license / callsign options

by Bill Walker <kd7jzb@mindspring.com>

20) [96125] 1996 Qrpp
by "Rich Wilkerson" <richqrp@home.com>

21) [96126] Harbor Freight Punch
by Richard Arland <rarland@earthlink.net>

22) [96127] Kits...
by "Kenneth G. Gordon" <keng@moscow.com>

23) [96128] Re: Kits...
by <igeq100@iupui.edu>

24) [96129] Determining CME trajectories
by "Paul Harden, NA5N" <na5n@rt66.com>

25) [96130] Re: 1 GHz Prescalers?
by "Leon Heller" <leon_heller@hotmail.com>

26) [96131] Re: Kits to build (Ramsey,Ten-Tec)
by adamvaz@palm.net (Adam Vazquez)

27) [96132] QRP Quarterly
by ae5x@netscape.net (John Harper AE5X)

28) [96133] Re: [fpqrp] MP20 - OK, that was the most fun I've had in Ham radio so far.
by "w8diz" <w8diz@fpqrp.com>

29) [96134] Re: "Making Verticals Quieter"
by "Phil (VA3UX)" <phil@vaxxine.com>

30) [96135] Computers as test equipment
by Peter_Simpson@ne.3com.com

31) [96136] [MH101] Digi-key vs Mouser
by Maxime Prati <mprati@postech.ca>

32) [96137] QRP CONTEST REMINDER
by Shepherd@aol.com

33) [96138] RE: FS Ten-Tec 515 & 208A - SOLD!
by Dave Redfearn <n4elm@home.com>

34) [96139] Re: Kits...
by "Mike Yetsko" <myetsko@insydesw.com>

35) [96140] Fw: RE: ladder line in the rain. what goes
by Walter D Amos <walt_amos@juno.com>

36) [96141] Re: What are the ladder line and twinlead losses?
by "Lau, Zack, W1VT" <zlau@arrl.org>

37) [96142] Re: "Making Verticals Quieter"
by Thomas Kuehl <ac7a@gci-net.com>

38) [96143] [MH101] Value of L1.
by Maxime Prati <mprati@postech.ca>

39) [96144] "Making verticals quieter" Correction
by Pete Burbank <plburbank@kih.net>

40) [96145] 45% Probablility of SEVERE geomagnetic storm
by Dave Sjolin <sjolin@swbell.net>

41) [96146] Re: "Making Verticals Quieter"
by Pete Burbank <plburbank@kih.net>

42) [96147] Re: "Making Verticals Quieter"
by Dave Sjolin <sjolin@swbell.net>

- 43) [96148] RE: "Making Verticals Quieter"
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 44) [96149] RE: Solar activity 10APR01
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 45) [96150] Re: "Making Verticals Quieter"
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 46) [96151] [M101] - Canadians and MOUSER parts procurement?
by Brien Pepperdine <pepperb@gov.on.ca>
- 47) [96152] HB sheet metal brake
by "Steven Weber" <kd1jv@moose.ncia.net>
- 48) [96153] Re: "Making Verticals Quieter"
by "Ed Juge/NM" <ed@juge.org>
- 49) [96154] MH101: A 40m variant of the K7Q0/SW30+ design?
by agtaylor@llnl.gov
- 50) [96155] Re: [MH101] Value of L1.
by Russ Dow <n7dw@pacbell.net>
- 51) [96156] FS: Drake 2880 Downconverters
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 52) [96157] QRP levels for VX5R & ADMS1E?
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 53) [96158] Re: [M101] - Canadians and MOUSER parts procurement?
by "Steven Weber" <kd1jv@moose.ncia.net>
- 54) [96159] RE: HB sheet metal brake
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 55) [96160] Re: [MH101] Digi-key vs Mouser
by "E. Roswell" <eroswell@monmouth.com>
- 56) [96161] Atlanticon Proceedings available
by "George Heron N2APB" <n2apb@erols.com>
- 57) [96162] SECOND NEQRP SSB NET SUCCESSFUL!
by "Ronald A. Pfeiffer" <Ronald_A_Pfeiffer@res.raytheon.com>
- 58) [96163] Shack Cleaning
by "Francis Callahan" <colcal@srv.net>
- 59) [96164] WTD: ARRL HANDBOOK, QST, etc
by "Ronald A. Pfeiffer" <Ronald_A_Pfeiffer@res.raytheon.com>
- 60) [96165] Aurora
by Dave Sjolin <sjolin@swbell.net>
- 61) [96166] Re: Aurora
by Jeff Stai WK6I <jstai@home.com>
- 62) [96167] KG4FSN/VE7
by "Juan Ferrari" <puntrad@usa.net>
- 63) [96168] Regen Schematics
by "Brad Hernlem" <alihernlem@hotmail.com>
- 64) [96169] RE: Kits...
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
- 65) [96170] Re: Kits...
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
- 66) [96171] OT: Vacationing in San Juan Islands - W7 Land - 04/15-4/19
by <schoon@amgt.com>

- 67) [96172] [MH101] SW-30+ L1 value
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
68) [96173] QRP kit from RV3GM arrived
by Oleg Borodin <Oleg.Borodin@p11.f35.n5036.z2.fidonet.org>
69) [96174] Re: Kits...
by "Anthony A. Luscre" <aluscre@neo.rr.com>
70) [96175] Re: Aurora
by Tom & Roxanne <zikot@erie.net>
71) [96176] Re: [MH101] SW-30+ L1 value
by "Paul Harden, NA5N" <na5n@rt66.com>
72) [96177] Re: Aurora
by Tom & Roxanne <zikot@erie.net>

Date: Tue, 10 Apr 2001 17:34:24 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-canada@lists.gpfn.sk.ca, qrp-l@lehigh.edu
Cc: gqrp@onelist.com, nmqrp@yahoogroups.com, "Prof. Arnaldo Coro Antich" <inforhc@ip.etecsa.cu>
Subject: [96106] Solar activity 10APR01
Message-ID: <Pine.SUN.4.10.10104101640400.10957-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Today, region 9415 produced another major flare, this time an X2. The trajectory of the CME/shockwave will likely hit the earth fairly strongly, triggering MAJOR to SEVERE geomagnetic storming and enhanced auroral activity wednesday evening and thursday.

Our E and F layers are highly reflective from the ionizing radiation of this flare, so the higher bands, including 6 and 2M, are ripe for good propagation and sporadic E openings. The lower bands are actually in good shape as well, due to a quiet magnetic field. But this will change drastically tomorrow!

That's the summary ... details from commenting today's RSGA follows for those interested in more details.

72, Paul NA5N

> Joint USAF/NOAA Report of Solar and Geophysical Activity
> SDF Number 100 Issued at 2200Z on 10 Apr 2001

> IA. Analysis of Solar Active Regions and Activity from 09/2100Z

> to 10/2100Z: Solar activity remained at high levels. Region 9415
> (S23W19) produced a long-duration X2/3b parallel-ribbon flare at
> 10/0526 UTC. This flare was associated with a 4000 SFU Tenflare,

Solar flux is measured at 2880MHz, or 10cm, since most solar flares do not affect flux measurements at this frequency. When a flare *does* effect the 2880MHz solar flux measurements, it's called a TENFLARE. Thus, today's solar flux shows an increase due to the X-class flare.

> Type II and IV radio sweeps,

These radio sweeps are the result of the particles in the CME passing through the magnetic field lines of the disturbance, producing radio energy. Escape velocity from the sun for a CME is about 350 km/sec. (This is why the "quiet" solar wind is about 350 km/sec.). By measuring the high vs. low frequencies of the Type I sweep following the flare, the velocity of the CME can be determined, in addition to imaging from the SOHO satellite. In today's case, the CME/shockwave from the X2 flare was estimated at an astounding 2000 km/sec. (The highest I know of this solar cycle). This means it will hit the earth around 1000 km/sec., triggering a major to severe geomagnetic storm when it gets here.

And speaking of when it gets here ... with such a velocity, it will probably arrive late wednesday or early thursday. If it hits late wednesday, say a bit before midnight, it will undoubtedly trigger some dramatic auroral displays into the middle latitudes over North America. (in addition to triggering a dramatic geomagnetic storm!).

I will post an update towards the end of tomorrow's UTC day with the latest estimates of auroral activity.

This X2 flare occurred from region 9415, which is very near the center of the sun, but in the southern hemisphere (typical location for large active regions AFTER the solar maximum or when the magnetic polarity of the sun "flips."). To see where this region (or any active region) on the sun is, goto:

<http://www.solar.ifa.hawaii.edu/ARMaps/Today/latest.gif>

If the region spawning the flare is within a window about 30 degrees from the center of the sun, the CME will likely strike the earth. The closer it is to the center, the more directly we will be hit. 9415 is in the southern hemisphere and about 20 degrees to the west, so we will not be hit directly, but we'll still sustain a pretty good hit!

> IB. Solar Activity Forecast: Solar activity is expected to be at
> moderate to high levels. Region 9415 is expected to produce another
> major flare during the period.

- > IIA. Geophysical Activity Summary 09/2100Z to 10/2100Z:
- > Geomagnetic field activity ranged from quiet to active levels. A
- > greater than 10 MeV proton event followed today's X2/3b flare.

These are energetic protons (particles) being flung our way at about the speed of light, acting as ionizing radiation to the E and F layers, and extending down to the D-layer near the polar regions. This later effect will cause enhanced attenuation to HF signals in the higher latitudes ... known as a Polar Cap Absorption event (PCA). See below.

- > A polar cap
- > absorption (PCA) event began around 10/1200 UTC and continued as the
- > period ended. Thus far, maximum absorption associated with the PCA
- > event has been estimated at 8.5 dB.

Remember, 3dB is absorbing HALF your signal power, so 8.5dB is sucking up a fair amount of your signal, making HF communications difficult to impossible. It appears as an HF blackout, due to the high absorption, in the higher latitudes.

- > IIB. Geophysical Activity Forecast: A major geomagnetic storm is
- > expected during 11 - 12 April in response to halo-CMEs observed on
- > 09 - 10 April. Active to major storm levels are expected during this
- > disturbance with brief severe storm levels possible at high
- > latitudes. Unsettled to minor storm levels are expected on 13 April
- > as the storm subsides.

We have the CME from today's X2 flare heading towards us, in addition to at least one more from the M-class flare on the 9th. Each arrival will disturb our magnetic field, with the one from the X2 clearly the most threat.

- > The greater than 10 MeV proton event is
- > expected to continue through most of the period. The PCA event is
- > expected to end during the latter half of the period.

The proton event will keep the PCA absorption high for the next two or three days, making HF communications very difficult for central Canada and higher.

- > III. Event Probabilities 11 Apr-13 Apr
- > Class M 80/80/80
- > Class X 25/25/25 <---- a fairly high odds of more major flares
- > Proton 90/80/25
- > PCAF In Progress <--- the PCA event in progress now.

- > IV. Penticton 10.7 cm Flux

guitar music. I discovered a dozen or two QRPers holed up in the 'breakfast room' with a couple of QRP-sized "backpacker" guitars that Doug had brought. Things got fun. Turns out everybody plays guitar, although I had some trouble finding the frets after a few Negra Modellás (imported 807s). Several of us got Jim K. to check out our building efforts. Mike set up his really sharp regen, and with a little wire strung from the plastic tree to the curtain rod, we had it squalling nicely. The high point came when the little girl from the front desk had to come and tell us to chill out because we were getting too rowdy. (Well, actually she told us to have a good time but please close the door when we leave.) We bailed out at 11:30 PM.

Arrived at the hamfest at about one minute till eight and the parking lot was already packed. Cruising the flea market, I actually found a couple of things I was looking for plus several I didn't know I needed. I did buy one of those "five dollars for the whole box" deals that had a number of nice variables in it. (It doesn't compare to the one I got in Russellville, though. It had a smashed jelly bean, some blown fuses, squashed B&W coil stock, a 40 year old germanium transistor and a glass and metal pagoda shaped device that could only be the hyper-warp drive from a Klingon battle cruiser.)

The forums were excellent. Doug was Doug. He'd be a great carny barker. Doug really gets people in the right frame of mind for the presentations. He sets up the topic and the speaker, plus throws in QRP insider's gossip and dispenses freebies. I got a Red Hot Radio T-Shirt!

George Heron answered a lot of questions for those of us who've been on the brink of PSK-31 for some time but haven't jumped in yet. The amazing thing was his box-in-development that integrates everything, including an embedded computer. It has an LCD screen to display text, but for difficult viewing situations, it can output in Morse. I think the audience was stunned when George revealed that this thing is gonna spit CW at you at 50 WPM! But the CW diehards loved it and George says people don't actually type that fast. So you don't have to be 50 WPM capable to use it.

Tony and Graham's tag-team test equipment show was a hit on several levels. Everyone is charmed by the accents and intrigued by the weird UK circuit symbols. But the utility and cleverness of the simple test circuits was the main selling point. I never did find out where you get those "Zomboid" mints, though. And I don't think I'm ever gonna accept nanofarads. I'm still stuck on micro-microfarads and megacycles. And I just know zig-zag resistors work better than those rectangular boxes.

It was a real pleasure meeting and hearing Jim Kortge. I struggled through construction of a 2N2/40 and was rewarded with a great little rig.. He is one of a handful of technically strong people on QRP-L who is always willing to help with a problem or participate in a technical roundtable.

Jim outlined the design evolution of his 40 to 17 meter transverter. I liked the fact that he decided to just use the double-decker (two board) rig as-is, without a box. It looks great. And the stories about DXing and working 25 states bicycle mobile really added to the presentation.

There were a number of other people present that could have given presentations of their own. But I agree that the spacing to allow shopping and visiting was welcome.

Saw my first (and second, and third ?) FT-817. Wow! I just recently got a '706, and being an engineer, I had to calculate how many 706's could fit inside an FT-1000. (It's 12.6.) Now someone has to calculate how many FT-817's will fit in an IC-706.

Thanks Jay, Kelsey, Keith and all of the lecturers and attendees who made Ft. Smith the QRP capital of the world for one weekend. Hope to see you there again next year.

Nick, WA5BDU
Russellville, AR

Date: Tue, 10 Apr 2001 18:07:41 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Flying Pigs" <fpqrp-1@mpna.com>
Subject: [96108] FS: Wilderness BuzzNot Kit
Message-ID: <0E24qn20VQtzdIWYLyG000020d0@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Works in NC40s and Sierras. \$20 shipped to you door CONUS.

73, Rod N0RC
Ft Collins CO

Date: Tue, 10 Apr 2001 19:28:32 -0500
From: Goemans <jgoemans@facstaff.wisc.edu>
To: qrp-1@lehigh.edu
Subject: [96109] Post-Hamfest sale
Message-ID: <3.0.2.32.20010410192832.006d6cb4@facstaff.wisc.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello again,

Several items left over from the Madison Swapfest, anyone out there interested?

1. AEA KT-1 Morse trainer/Iambic keyer. Vintage 1980, state of the art then, now a collectable! Does Morse training with pseudo-random groups, variable speed, Farnsworth, etc. Also iambic keyer. All functions controlled by combinations of keypad number buttons. See QST review in ARRL web archives, QST Jan 1981 p40. It all works, mint condition, with manual AND original 1981 AES sales receipt (\$117!), \$40 shipped in conUS.

2. Arcron Synctime "Atomic travel clock", the little one. Does UTC or any US time zone, works great! I have 2 of them to sell. \$35 each shipped in conUS.

72, Paul

Paul Goemans WA9PWP
1508 Sundt Lane
Stoughton, Wi 53589

wa9pwp@arrl.net

Date: Tue, 10 Apr 2001 20:36:04 -0400
From: "Phil (VA3UX)" <phil@vaxxine.com>
To: qrp-l@Lehigh.EDU
Subject: [96110] Pi network spreadsheet (Excel)
Message-ID: <3.0.5.32.20010410203604.007b5eb0@vaxxine.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

E-mailing out this 300K Excel spreadsheet is getting a little tedious. I've added a "Download" page at my website and you can download my Pi and Pi-L network spreadsheet there.

I've also put the the LADDER LINE pdfs from N7WS there as well.

Go to : <http://www.vaxxine.com/phil>

The link to the download page is near the bottom of the home page. Please pardon the remainder of the website - it is badly in need of updating.

Phil

Date: Tue, 10 Apr 2001 17:31:36 -0700
From: Russ Dow <n7dw@pacbell.net>
To: fantbb@yahoo.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96111] Re: What are the ladder line and twinlead losses?
Message-ID: <3AD3A5E8.6921FAD7@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi Jeff and the gang,

I got these figures from a graph in the 1998 ARRL Handbook
(P. 19.5), the latest edition I have.

	7 MHz	15 MHz	30 MHz	50 MHz
	-----	-----	-----	-----
Window line, 450 ohm	< 0.1	0.11	0.15	0.21
TV Tubular, 300 ohm	0.22	0.32	0.4	0.77
RG8 (Foam dielectric)	0.42	0.53	0.8	1.4
RG58	1.0	1.6	2.4	3.2
RG174	3.4	3.7	6.5	8.1

The Tubular 300 ohm line is the only TV type twinlead on the
graph. I have no idea how well it represents other
variations of twinlead.

Just reading the charts, your mileage may vary, etc.

72,
Russ N7DW

Jeff wrote:

>
> Does anyone have what the losses are at 100 feet for ladder line and
> twin lead for the HF bands?
> After my last posting about how the losses are higher than what was
> once thought I'd sure like to know what they are now.
>
> 73!
> Jeff
>
> =====

> AB6MB
> NorCal QRP Club #65, QRP-L #1780, ARCI 10071
> Radical FIST Member 6798
>
> -----
> Do You Yahoo!?
> Get email at your own domain with Yahoo! Mail.
> <http://personal.mail.yahoo.com/>

Date: Tue, 10 Apr 2001 20:37:50 -0400
From: Richard Arland <rarland@earthlink.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [96112] Harbor Freight
Message-ID: <3AD3A75E.639F63E0@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What is the nomenclature of the punch that K7QO and others are using to make the standoffs for their Manhattan-style construction projects? I know it comes from Harbor Freight, but I am not sure of what the official nomenclature is.

73 es tnx.

Rich K7SZ

Date: Tue, 10 Apr 2001 20:47:34 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'agtaylor@llnl.gov'" <agtaylor@llnl.gov>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [96113] RE: ladder line in the rain. what goes
Message-ID: <078F21595FA7D411B87B00805FA728E64A46A1@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Allan,

... Well, if you were running 1500 watts and losing 1000 watts, that MIGHT be a big deal.. 8-) You let out all the magic smoke!!

Same ratio

Jerry
W3CDE

-----Original Message-----

From: agtaylor@llnl.gov [mailto:agtaylor@llnl.gov]
Sent: Monday, April 09, 2001 6:36 PM
To: Low Power Amateur Radio Discussion
Subject: Re:ladder line in the rain. what goes

Stuart, K5KVH, said:
I doubt there would be much loss
at QRP powers. Now, if you had high power that is something else!

I would like to add the (perhaps obvious) observation that any loss is proportional to the power level. You will have the same dB loss at QRP power levels that you will at QRO levels (provided no arcing takes place, of course!) Just because the loss is a small number in an absolute sense does NOT mean it is insignificant: it may be an important percent of your output power at QRP or QRPp! An insignificant loss of 10mW is a big deal if you are trying to get 15 mW to the antenna while it doesn't matter a bit if I am running my amp on 40CW in a contest...

None of this is intended to criticize the waxing or other water protection of open lines. But rather to point out to the unwary that a dB of loss is just that: a drop proportionally in the power that makes it to your antenna (or whatever!).

73 that picky guy

Allan K7GT (Chuck isn't the only physics guy on the list...)

Allan G Taylor

agtaylor@llnl.gov

Date: Tue, 10 Apr 2001 21:35:22 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96114] RE: ladder line in the rain. what goes
Message-ID: <078F21595FA7D411B87B00805FA728E64A46A2@atlexc02ntms.h boc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I wonder if this is anything like "waxing and waning" or is it raining...

Jerry
W3CDE

-----Original Message-----

From: Bruce Muscolino [mailto:w6toy@erols.com]
Sent: Tuesday, April 10, 2001 3:52 AM
To: Low Power Amateur Radio Discussion
Subject: Re: ladder line in the rain. what goes

John,

Why? Waxing twin lead, and by implication ladder line, was once considered the thing to do to reduce losses in snow and rain. I can remember reading about it when I was a kid.

73

Date: Tue, 10 Apr 2001 21:37:17 -0400
From: "Jim Thiessen" <jthiessen@videotron.ca>
To: <qrp-l@Lehigh.EDU>
Subject: [96115] 12v Gelcel Charger Circuit
Message-ID: <002e01c0c227\$f1928b80\$fa52cb18@videotron.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi guys...

I would like to build a 12v gel cel charger using the Texas Instrument UC3906 chip. I have the chip. I need a good reliable circuit and PCBs for myself and 2 local area hams.

I'm considering ordering ready made PCBs from FAR circuits. It's based on the ARRL 1992 Handbook Ch27 (Fig 66)circuit. I don't have the 92 handbook and would appreciate any info anyone may have including a schematic and your experience with this particular circuit .

Also, I know about the VK3EM gelcel charger and I am ready to buy circuit

boards from Luke, but he no longer seems to be receiving my e-mails. Its a shame because he said he had 14 boards left on hand. Anyone have any experience with the VK3EM sealed lead acid (gelcel) charger?

Thank-you in advance for your assistance and comments.

Jim
VA3KV
Rockland Ontario
K1#302

Date: Tue, 10 Apr 2001 20:52:03 -0500
From: Dave Redfearn <n4elm@home.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [96116] RE: FS: B&W AP-10 Portable Antenna
Message-ID: <3AD3B8C3.3E76DFC3@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The B&W AP-10 portable antenna is spoken for.

Thanks for the response!

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKhome.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Tue, 10 Apr 2001 21:53:05 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Cc: "Vintage Solid State" <vss@qth.net>, "Test Equipment Reflector" <test-equipment@qth.net>, "Homebrew Reflector" <homebrew@qth.net>
Subject: [96117] Great ONLINE Transistor database
Message-ID: <CKEGICNFDIMCEKEDCEHFAEBPGMAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just found a GREAT transistor data base at:

<http://members.tripod.com/~Malzev/comp/transist.htm> .

73 Ed Tanton N4XY <n4xy@arrl.net>

website: <http://www.n4xy.com>

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

R-390: Motorola SN: 374

R-390-A: Capehart SN: 2241

51S-1 WE SN: 4389

Date: Tue, 10 Apr 2001 21:57:35 EDT
From: FrConrad@aol.com
To: QRP-L@lehigh.edu
Subject: [96118] Open Petition for QRPTTF Monolith status
Message-ID: <85.9817e4b.2805140f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

WARNING: If you are offended by un-funny references, circuitous reasoning or gross rationalization, please hit "DELETE" now.

However, if you like Nil's posts...read on.

I want to operate as a "Monolith" station in QRPTTF a space odyssey. I'll be operating from a balcony (outdoors) by battery power in Cuernavaca, Mexico. However, I'll be less than a quarter wavelength at twenty meters from the margarita blender and the limes.

Now this would ordinarily be on the "edge" of a field location. However I would like to push the edges of the envelope and petition for "Monolith" status (class 5) under the following rationalization:

As I'm sure you all know, Quetzalcoatl was reputed to have "ojos claros" or blue eyes. This was a primary factor that allowed Cortez to swoop in and take over Mexico. Now there are three popular explanations for this. They

are: 1) It was Jesus...the Mormons support this one; or 2) it was Lief Ericson...the Lutherans like this one; or 3) he was an extraterrestrial...a certain Episcopalian likes this one.

Ergo, any location where Quetzal Coat1 trod qualifies by association with outer space and you can see the obvious connection with the QRPTTF theme.

So whadda ya say. Can I go as "Single Op Monolith?"

John+

P.S. If this post makes no sense whatsoever to you, check out the NORCAL website.

Date: Tue, 10 Apr 2001 22:08:35 -0400
From: hamjoel@juno.com
To: agtaylor@llnl.gov, qrp-1@lehigh.edu
Subject: [96119] Re: Question:General license / callsign options
Message-ID: <20010410.220838.-466651.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For QRPing, having an easily copied call also matters. You are down in the noise for most of the stations you will be trying to work. Choose a good call.

Yes having an easy copied call helps (very good point) however I wonder why ur signal is down in the noise for most of the station u work....don't have that problem heah... Why is it, a qrp signal is automaticlally considered to be in the noise..... that's what the ant is for.... to get ur low power signal out... for an otherwise great post I don't understand this part of it...

This (in the noise) type of signal sure puts the burden of the contact on the receiving station 100%.... 100% of the time... no skill required on the qrp station side, far sheaux....
kella joel
in maine

Date: Tue, 10 Apr 2001 20:15:25 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Flying Pigs" <fpqrp-1@mpna.com>

Subject: [96120] Re: Wilderness BuzzNot Kit
Message-ID: <0E73Iix1UsHipF1yTcs000023f5@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The BuzzNot has been sold.

73, Rod N0RC
Ft Collins CO

----- Original Message -----

From: "Rod Cercone" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, April 10, 2001 06:07 PM
Subject: FS: Wilderness BuzzNot Kit

> Works in NC40s and Sierras. \$20 shipped to you door CONUS.

Date: Tue, 10 Apr 2001 22:38:15 -0400
From: Fran Flynn <fflynn@adelphia.net>
To: lycott@fox.nstn.ca, qrp-1 Discussion <qrp-1@Lehigh.EDU>
Subject: [96121] Audio Oscillator using Sound Card
Message-ID: <3AD3C397.B36E7D3F@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David Taylor has written some very nice software for sound
cards, download it here.

<http://www.david-taylor.pwp.blueyonder.co.uk/>

<<From: "Bob Shaw" <lycott@fox.nstn.ca>
To: <qrp-1@lehigh.edu>
Subject: [96056] Audio Oscillator using Sound Card
Message-ID: <008201c0c16f\$f4f80740\$0100a8c0@athlon>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I recall some programs including an audio oscillator program using the

de Bob VE3SUY>>

Antenna

1.
1

Date: Tue, 10 Apr 2001 20:01:33 -0700
From: Patrick Armstrong <aa7fg@gte.net>
To: qrp-1@Lehigh.edu
Subject: [96123] FS Paddlette KP-4 key/keyer combo
Message-ID: <3AD3C90C.265179B1@gte.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paddlette model KP-4 key/keyer combo (NIB)... See www.paddlette.com for details on this key/keyer built around the TiCK-4 chip... \$60.00...

Pat, AA7FG - Oregon

Date: Tue, 10 Apr 2001 20:23:44 -0700
From: Bill Walker <kd7jzb@mindspring.com>
To: QRP-L Server <qrp-l@Lehigh.EDU>
Subject: [96124] Re: Question: General license / callsign options
Message-ID: <5.0.2.1.0.20010410200704.009e8ec0@mail.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Patrick, for what it's worth I'd keep your callsign unless you do a lot of contest work and need a shorter one. As you say though A I R is not a bad pattern for cw, you should try mine! I've been a general class for a little over 7 months now. Having tested in July of last year for technician and upgrading a month later to general I figured that someone would give me a hard time about the relaxed code requirement which started last April. That never happened. Fact is I didn't even know the FCC had changed the requirements, and having prepared for testing in 1978 I was rather shocked at what they had done. But that's another story. Bottom line is if you like your call, keep it and be proud of it no matter what anyone thinks. I thought about changing mine at one time but my wife started calling me the jazz bee so I think it will stay for a while. :-)

72

At 08:36 4/10/01 -0700, you wrote:
>For you upper classmen out there, I need some interpretation please. I've
>been researching this subject but can't find anything definitive on the
>web. I'm upgrading to General this weekend and have the choice of changing
>my callsign. I currently have a 2x3 callsign. Will I be assigned a 2x2, or
>another 2x3 or what? Providing I check the box for change of callsign. If
>I keep the 2x3 and work General bands, will the Generals & Extras try to
>police me? I wouldn't mind keeping my callsign; it spells a real word and
>A-I-R has a nice dit-dah pattern. However, I don't want to have to qualify
>my 2x3 when I work the bands with the big boys. THX!
>Patrick KC7AIR (Tech+)
>Kingman, AZ

Bill Walker - KD7JZB
kd7jzb@arrl.net
<http://www.qsl.net/kd7jzb>

Date: Tue, 10 Apr 2001 20:44:33 -0700
From: "Rich Wilkerson" <richqrp@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [96125] 1996 Qrpp
Message-ID: <000c01c0c239\$b8e4ca20\$f5460418@elcjin1.sdca.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello to the Group,

I read and have already forgot the listing of what issue of the year 1996 that was wanted? I may even have the year wrong, but just came across September 1996, will this help?

Rich Wilkerson / WD6FDD

Date: Tue, 10 Apr 2001 23:44:25 -0400
From: Richard Arland <rarland@earthlink.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [96126] Harbor Freight Punch
Message-ID: <3AD3D319.69528FCF@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

MANY thanks to all who responded.

I was on the website and the punch is apparently NOT on sale...I will check tomorrow when I call them.

Thanks again

73 Rich K7SZ

Date: Tue, 10 Apr 2001 21:04:20 -0700
From: "Kenneth G. Gordon" <keng@moscow.com>
To: qrp-1@Lehigh.EDU
Subject: [96127] Kits...
Message-ID: <200104110403.VAA35975@whale.fsr.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I am teaching a small group of teenagers a bit about electronics. Some of them have ham licenses (Tech Pluses) and others are very interested in getting licenses.

I am thinking that an excellent project for them would be either a single-band (probably 40 meters) DC receiver or QRP transmitter, or both, or perhaps, if they can afford it, a single-band transceiver.

I have looked at Vectronics (MFJ?), and Milestone Technologies (MTECH?), and was fairly impressed with both, but don't know much about them. I also looked at Ramsey, but am not so sure about their stuff.

I have heard of Small Labs and another which escapes me at the moment, but don't have their addresses or URLs.

I am asking for suggestions and help from the list.

vy 73,

Ken Gordon W7EKB

Date: Wed, 11 Apr 2001 00:10:47 -0500 (EST)
From: <igeq100@iupui.edu>
To: "Kenneth G. Gordon" <keng@moscow.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96128] Re: Kits...
Message-ID: <Pine.GS0.3.96.1010411000643.22371A-100000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Ken -

The Vectronics kit is a good beginner's kit. It works pretty well, and is not difficult to assemble. It has a DC receiver that is quite sensitive but not all that selective. The VX0 has enough range to let you get away from nearby QRM. Its advantage for your group would be its low price, and it does produce a workable unit.

73,

Rich Meiss, WB9LPU

Date: Tue, 10 Apr 2001 23:41:45 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Rod Cercone <n0rc@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [96129] Determining CME trajectories
Message-ID: <Pine.SUN.4.10.10104102322140.13236-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 10 Apr 2001, Rod Cercone wrote:

> Now, how does I go about determining whether or not the after affects,
> if any (CME), will be Geo effective for us?

Rod asks a very good question here.

For a fair summary of near real-time information, I recommend either
<http://sec.noaa.gov/today.html>
or <http://sec.noaa.gov/SWN> (for Space Weather Now)
These sites will give you the current solar wind, solar x-ray output
(and hence the magnitude of recent flares) and things like that. It also
gives the current preliminary reports where the actual measurements of
the flare, the region, shock wave velocity measurements, etc. are listed.

To find out where on the sun's surface an active region is, you can use
the site I cited in today's solar activity report on qrp-l, or link to
it from

<http://www.dxlc.com/solar>

Scroll down a bit and click on the link to the current solar map.

If the region that produced the flare is in or around the center of the
sun, usually around 30 degrees, then it is assumed to be "geoeffective,"
that is, the shockwave will likely hit the earth. The closer the region
is to the center of the sun, or a bit westward, the higher the impact
energy to the earth will be.

Also, images from the SOHO (and other) satellites show the coronal mass
ejection (CME) as it leaves the sun. Scientists can get *some* idea of
the trajectory from these images. But, the most difficult part to image
is that part coming directly at us ... that is, directly towards the

satellite. The best images are those where the CME is blown away from the sun and away from the earth - so you see it broadside. Those have the least threat to Earth.

BUT HERE IS THE PROBLEM:

While the CME leaving the sun is captured by SOHO, this is only because it "sees" the hot gasses carrying the particles out into space. Once this shockwave of particles is away from the sun, it cools down and is no longer "seen" by the satellite instruments. So, it travels from the sun to ALMOST earth virtually invisible. The next time we see it is when the shockwave passes one of the satellites, such as SOHO, GOES, etc. that have solar wind or proton/electron sensors. These instruments are great for measuring the velocity and density of the incoming shockwave, but only provide us with about 45 minutes of advanced warning.

So this tremendously powerful shockwave, actually travels from the sun towards the earth in a very stealthy fashion. It does not allow us to determine with any certainty the speed, density OR DIRECTION of the shockwave. This is why in spite of all this neat, nifty real-time data, predicting the exact arrival time or how powerful (and thus the results) of this shockwave is still in the grey area.

New earth-based instruments are being proposed, such as the LOFAR array, which will be a large, low-frequency array, in an attempt to track this particle shockwave as it travels through interstellar space. And believe it or not, a proposal to use HAARP to illuminate the incoming shockwave has even been made. (This is from intra-observatory releases, NOT Art Bell! Wait 'till he hears about this one!).

So for now, we just have to sit back and wait for the shockwave to hit to see what the final results and impact will be. But, by seeing where on the sun the flare originated, and the shockwave velocity, one can make a fairly intelligent "guess" as to how weak or powerful the resulting geomagnetic storm may be.

72, Paul NA5N

Date: Wed, 11 Apr 2001 07:34:28
From: "Leon Heller" <leon_heller@hotmail.com>
To: dtayloe@home.com, qrp-1@Lehigh.EDU
Subject: [96130] Re: 1 GHz Prescalers?
Message-ID: <F25HX2WK43S3Iouk4RF00000e4d@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>
>Anyone have a recommendation for 1 GHz prescaler parts? I am looking
>for something in the divide by 8 or by 16 (perferred) catagory. Right
>now all I can find is a Motorola MC12093D (divide by 8), but it is hard
>to find and rather expensive.

Fujitsu makes PLLs with fast pre-scalers. Nat Semi does, as well. GPS (was Plessey) used to make very fast pre-scalers (up to 5 GHz or more), and the 1 GHz ones were quite cheap.

73, Leon

--

Leon Heller, G1HSM Tel: (work): +44 1327 357824 (home): +44 1327 359058
Email:leon_heller@hotmail.com My web page:
http://www.geocities.com/leon_heller IRISYS Ltd: <http://www.irisys.co.uk>

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 11 Apr 2001 04:36:39 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: keng@moscow.com, qrp-1@Lehigh.EDU, adamvaz@mobile.att.net
Subject: [96131] Re: Kits to build (Ramsey,Ten-Tec)
Message-ID: <GBMD9300.RXQ@mo110uhou.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello from Adam KB2JPD

I just finished a Ramsey FM broadcast transmitter(\$39.95). The instructions were easy to read. No need to Brillo, very clean board. Most of the electronic components were of conventional , not surface mount, style. I found some of the resistors supplied hard to read. The kit is great when elmering one-to-one. The project case is available at additional cost.

I also assembled a Ten-Tec 6 meter to 2 meter transverter(\$99.95 in kit

form). I mention this one because it is perfect for new hams with 2m radios; go 6m and gain a band!

The instructions are great and are along the Heathkit style. It was one of the largest kits I have done. If you have one long day to yourself, you could get it done.

The manual is printed in a perfect binding (plastic thing in the spine), perfect for laying it down and staying open awhile soldering. The board PCB is printed in two color. The schematic is large and reproduced many times when focus flows from one section to another. This is a project best suited for one-on-one elmering also.

It was my first attempt with coil winding and making bifilar RF transformers. The instructions were very clear and removed any doubt.

It is a project with all the hardware and parts included. Very easy to start losing the inventory.

Both kits require minimal equipment. A multimeter with a milliamp scale for the bias. Tuned both with a FM radio.

Hope that I was helpful.

Adam

Date: Wed, 11 Apr 2001 05:16:50 -0400
From: ae5x@netscape.net (John Harper AE5X)
To: qrp-l@lehigh.edu
Subject: [96132] QRP Quarterly
Message-ID: <7BC69E5B.798298A9.00003ABB@netscape.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"

Hats off to everyone who had a hand in the April QQ, turning it from a good idea to a tangible object in my mailbox. Another excellent issue.

John Harper AE5X
Outdoor QRP: <http://www.qsl.net/ae5x>

--
John Harper AE5X
Outdoor QRP & Lowband DXing: <http://www.qsl.net/ae5x>

Get your own FREE, personal Netscape Webmail account today at <http://webmail.netscape.com/>

Date: Wed, 11 Apr 2001 06:54:28 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [96133] Re: [fpqrp] MP20 - OK, that was the most fun I've had in Ham radio so far.
Message-ID: <005401c0c275\$c8389f10\$7ecd1b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have to share this email with the QRP-L group
"MAC, AF4PS GIVES BIRTH" - first qso on new homebuilt rig
-Diz

----- Original Message -----
From: <Macstein@aol.com>
To: <fpqrp-l@mpna.com>
Sent: Wednesday, April 11, 2001 12:35 AM
Subject: [fpqrp] MP20 - OK, that was the most fun I've had in Ham radio so far.

It started out as a joke... Mac says he finished his band module but has not tweaked it good. HA, HA, HA, let's see if we can hear Mac and his pig rig. No, he hasn't calibrated it... offset/freq is off, power out is low, and RX is not tweaked properly, but let's try anyway....

I get on 20 meters and hollar "CQ CY DT AY4EPH AF5PS AF4PS / QRPp"..you see, I very RARELY use a straight key...

wait... what was that...

Ok they are really razzing me over IM...Mikey, Diz, Aron, Dan (HERO), Bob, Brian... all of them, "We don't hear anything but digital crap." "Move to 14.059 it's quiet there" (like my dial is anywhere close to being close!) "Mac, you are 118 with a bad chirp on your sig." "Do you have your MP-20 linear on? (That, from Diz.)" "What frequency are you SUPPOSED to be on?" Ah, friends like these...

So I ignore them as best I can and venture on.

I call again (edited this time for "Mac's fist" errors): CQ CQ CQ DE AF4PS
AF4PS AF4PS / QRPp

wait again... more harrassment over IM. Actually, it's incessant!

Then I heard it... QRZ QRZ DE KC4TXR/QRP K

Hummmmm... KC4TXR KC4TXR DE AF4PS AF4PS/QRPP BK

(YES!!!!... I _can_ listen and copy code while jumping and dancing in circles!)

AF4PS AF4PS DE KC4TXR TNX FER CALL U R 569 569 NAME IS JOHN JOHN QTH WAPPINGERS FALLS NY, WAPPINGERS FALLS NY HOW COPY? AF4PS DE KC4TXR BK

What?? WHAT? 569 from NY... not a bad start at all, harrassment over IM notwithstanding! We rag chew... what a blast! I told him about it being my first QSO with the PIG rig and that he would be receiving an ugly certificate to display proudly in the back of drawer somewhere. He said he was honored and all but the certificate wasn't necessary... (harumph!!!) QSL would be mailed tomorrow. I BEGGED him to send my call again so the online NAYSAYERS would hear it even if they wouldn't admit it. He was a nice guy. We signed. My fist was about to fall off. (gotta put the KaPaddles together after Easter!) THEN...

AF4PS AF4PS DE K6STI K6STI BK

Hummm, a 4 call form NY and now a 6 call... I wonder!

Well, turns out it was Brian (no, not that Brian) from San Diego who was pulling my 500 mw signal out with the aid of a CW read program so he couldn't give a good RST (I logged 559, of course). He was very impressed with my QRPP signal from Florida, but I did notice I got no "flowers" for my fist (grin). THEN....

Then harrassers from IM lined up to work the MP20. I think about ignoring them but Mikey was the first I heard. He was using the big ol' beam and gave me a 599 (I logged 559, of course). Next was NS3E, Edward in Dover, Delaware who broke the pig pile. It took me FOREVER to get Delaware for my WAS... now the pig rig gets it 4th QSO!!! He wondered if I was a FISTS -- what? sounding all left foot-like?!?! I suprizied him big time, I'm sure, sending him my NR 5096 and CC NR 754. However, Lord only knows what he copied for my numbers. He was NR 909 and CC 659. Criminy...Delaware!

Then came Aron, N10DL, who's sig was super from NH, but his Freq. readout dial is off JUST like Mikey's -- and finally,

the Coup De Gras...

my buddy Bob Engleman, WB8UOJ in OH... on MP-20 #3....YES! YES!! YES!! A MP-20 to MP20 QSO!!!!

Bob will be the recipient of a very ugly certificate which he will proudly display in the back of a drawer somewhere in his basement.

My fist is tired. I gotta get on the straight key more often. Mikey said I did alright except when trying to send "HI HI". Go figure.

I am a very happy piggie tonight. (Did I mention Diz stayed up with me last night working me through my lunacy getting only about an hour sleep? LOVE THAT MAN!!!!)

OK, I'm gonna sleep a few hours for the first time since April with lesson #1.

oo
-MAC-
AF4PS
-51

Date: Wed, 11 Apr 2001 07:02:49 -0400
From: "Phil (VA3UX)" <phil@vaxxine.com>
To: plburbank@kih.net
Cc: qrp-1@Lehigh.EDU
Subject: [96134] Re: "Making Verticals Quieter"
Message-ID: <3.0.5.32.20010411070249.007b2d90@vaxxine.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It doesn't quite make sense Pete. A vertical is an unbalanced antenna and coax is an unbalanced transmission line, so a balun serves no purpose in this application. Perhaps it's actually an "unun" (unbalanced to unbalanced impedance transformer) that he's talking about in the article (?). Further, if inserting such a device attenuates QRN (vertically polarized noise), it probably also attenuates vertically polarized DX signals, which implies that his balun is just a lossy element inserted in series or parallel with the antenna. Does the article offer any explanation of theory of operation ?

Phil

At 10:43 PM 4/10/2001 -0400, you wrote:

>The subject is the title of a Tech Forum note in Ham Radio Jun 1983.
>It is by Robert Crawford WA6RYZ
>It describes A !:1 Balun installed at the base of a vertical to reduce local
>QRN.
>It is 11 bifilar turns on an Amidon Balun core which I assume is the big

```
>red T-200  
>one.  
>The TX feed (starting at the left....>>>>coil>>>> goes to ground  
>The antenna is connected...ground<<<<<coil <<<<< feedpoint  
>  
>I was curious if anyone had ever tried this and how does it work.  
>Sorry don't have a DigiCam or FAX machine here to put a  
>Picture on line.  
>73 Pete NV4V  
Antenna  
>  
    1.  
>  
        1  
> Ground<<< <<<<<<11 Turns<<<<<<<<<<<<<<<, , , , !  
>                                     Toroid Core  
>TX>>>>>>>>>>>>>>>>11 Turns >>>>>>>>>>>>>Ground  
> A clumsy attempt at a schematic . :-)  
>  
>  
>  
>  
>
```

Date: Wed, 11 Apr 2001 07:25:11 -0400
From: Peter_Simpson@ne.3com.com
To: qrp-l@lehigh.edu
Subject: [96135] Computers as test equipment
Message-ID: <85256A2B.003F6B61.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Re: Using your computer sound card as an oscillator
vs. building one from an op-amp and a light bulb.

Pro:

Digital frequency tuning/sweep/pulsing/waveforms
Takes up "zero" additional bench space

Con :

Won't work as an oscilloscope simultaneously :-(
No odor of flux (love that smell)

Not that you *couldn't* build the oscillator from scratch, but sometimes the computer is easier, faster and more versatile. Not to mention that, every time I use my computer as a piece of test equipment, I can't help thinking that it's a much better use for that much sophisticated electronics than surfing the web!

73,
Peter, KA1AXY

Date: Wed, 11 Apr 2001 08:19:45 -0400
From: Maxime Prati <mprati@postech.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [96136] [MH101] Digi-key vs Mouser
Message-ID: <1184DDFC52DBD311AF510050DA799BB763D6DC@INTERNET-SERVER>
MIME-Version: 1.0
Content-Type: text/plain

hi,

I'm in the process of building the SWL-30 a la K7QO style.
Chuck is doing a really nice work in progress on his web page.

I am in the "hunt for parts" phase.

For the project, I need some 10.7 Mhz IF Transformers.
They are available at Mouser for about 79 cents each.
Catalog number is 42IF123.
Very good price.

The only problem I have, since I'm from Canada, I have to do a minimum order of \$100.00.... so, I need to order 126 IF transformers !!!
Too many for me to stock them !

I want to order them from Digi-key.
It's easier for me to order there.

I have no experience with those little things.
Can someone point me to an equivalent that I can buy at Digi-Key ?

It will help me a lot.

Thank you.

73 de VE2HAC

Maxime Prati

"Duct tape is like the Force. It has a light side, a dark side, and it holds the universe together...."

Date: Wed, 11 Apr 2001 08:27:28 EDT

From: Shephed@aol.com

To: <qrp-l@lehigh.edu>

Subject: [96137] QRP CONTEST REMINDER

Message-ID: <c5.fb00e0c.2805a7b1@aol.com>

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Hello everyone,

The Flying Pigs QRP Club, Int. is hosting a QRP contest coming up on the 5th of May.

There will be a prize for the top scores, and certificates for all.

Full details can be found at:

<http://www.fpqrp.com/fpqrpqsp.html>

A few minor details will be posted before the contest, and if you have any questions, please direct them to me at n8ie@aol.com

72, oo

Dan, N8IE=AE

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Date: Wed, 11 Apr 2001 07:42:11 -0500

From: Dave Redfearn <n4elm@home.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, Ten Tec mailing list <tentec@contesting.com>

Subject: [96138] RE: FS Ten-Tec 515 & 208A - SOLD!
Message-ID: <3AD45123.25F40C10@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for the response.

The 515 and 208A are spoken for.

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKhome.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Wed, 11 Apr 2001 08:41:50 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <keng@moscow.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96139] Re: Kits...
Message-ID: <00c801c0c285\$05d5a3e0\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, I don't want to throw a damper on your excitement, but seeing as how the kids aren't all into radio yet, why don't you ask them?

Perhaps divide the kids into 'groups' with different projects to build, to try to match interests. Maybe even do more than one project per group for some of the 'simple' ones or beginners in electronics.

While building a 40m receiver sounds exciting, you may have some kids that just couldn't care less about 40m, but do want to 'play and build' kind of thing. Get them kits that will match to their interest, not to yours.

Then as kits get built, the simpler ones should finish first. Mostly. This will create an air of excitement, and as these kids are on a high and starting a second simple kit, the other kids will be perked up. Then as the 'radio' type kits actually start to finish up, you may see some of the non-radio interest kids get excited in it just from being around it.

As to getting ideas, go to Radio Shack. They have a catalog stand. It's about a 3foot wide stand with loose-bound catalogs. You can order kits through them, or go direct. They have Vectronics, Ramsey, and others. Just to see the catalogs all in one place should give you ideas, and manufacturers.

Oh, by the way, Radio Shack does not carry COMPLETE catalogs. Some items are 'left out', I guess is the most polite way to say it. For example, you won't find any 800mhz scanner converters in the catalogs at Radio Shack....

Mike

> I am teaching a small group of teenagers a bit about electronics. Some of
> them have ham licenses (Tech Pluses) and others are very interested in
> getting licenses.
>
> I am thinking that an excellent project for them would be either a single-band
> (probably 40 meters) DC receiver or QRP transmitter, or both, or perhaps, if
> they can afford it, a single-band transceiver.
>
> I have looked at Vectronics (MFJ?), and Milestone Technologies (MTECH?),
> and was fairly impressed with both, but don't know much about them. I also
> looked at Ramsey, but am not so sure about their stuff.
>
> I have heard of Small Labs and another which escapes me at the moment,
> but don't have their addresses or URLs.
>
> I am asking for suggestions and help from the list.
>
> vy 73,
>
> Ken Gordon W7EKB
>

Date: Wed, 11 Apr 2001 11:02:22 GMT

From: Walter D Amos <walt_amos@juno.com>
To: qrp-1@lehigh.edu
Subject: [96140] Fw: RE: ladder line in the rain. what goes
Message-ID: <20010411.115116.-86489.8.walt_amos@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks:

Where do you get the wee people who climb the ladder line to wax it? I have around 60 feet of the stuff and it is #14 wire in there but I am way to heavy to climb and hang on with one hand and wax with the other. I do like to operate in the thunder storms and wear headphones and have a ground strap around my ankle to the water pipe. I'm sure that keeps me safe and sound. Do the wee people charge much for doing this kind of work? Are they POLISH?

Walt K8CV in Royal Oak, MI.

----- Forwarded message -----
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Date: Tue, 10 Apr 2001 21:35:22 -0400
Subject: RE: ladder line in the rain. what goes
Message-ID:
<078F21595FA7D411B87B00805FA728E64A46A2@atlexc02ntms.hboc.com>

I wonder if this is anything like "waxing and waning" or is it raining...

Jerry
W3CDE

-----Original Message-----
From: Bruce Muscolino [mailto:w6toy@erols.com]
Sent: Tuesday, April 10, 2001 3:52 AM
To: Low Power Amateur Radio Discussion
Subject: Re: ladder line in the rain. what goes

John,

Why? Waxing twin lead, and by implication ladder line, was once considered the thing to do to reduce losses in snow and rain. I can remember reading about

it
when I was a kid.

73

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 11 Apr 2001 09:25:24 -0400
From: "Lau, Zack, W1VT" <z1au@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [96141] Re: What are the ladder line and twinlead losses?
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9DC8@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The latest ARRL Antenna book comes with a Windows program designed
to model transmission line and tuner losses.--Zack W1VT

Date: Wed, 11 Apr 2001 06:29:49 -0700
From: Thomas Kuehl <ac7a@gci-net.com>
To: plburbank@kih.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [96142] Re: "Making Verticals Quieter"
Message-ID: <3AD45C4D.BB95D2A6@gci-net.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Pete,

I know of what you speak. The article was written by Bob
Crawford (W06I). I tried
this some years back and it didn't seem to make any
difference whatsoever in my
vertical's noise level.

By chance, this was the subject of a 160 QSO I was having
one time, and it turned
out the fellow I was talking to was intimately familiar with
Bob's work. He sent me

a letter saying the Ham Radio article had an error in the toroid's connection and also a correction. I made the connection change and re-tried the idea. The noise didn't change again. Maybe its just me.

'73, Thomas - AC7A (Tucson)

Pete Burbank wrote:

```
> The subject is the title of a Tech Forum note in Ham Radio Jun 1983.  
> It is by Robert Crawford WA6RYZ  
> It describes A !:1 Balun installed at the base of a vertical to reduce local  
> QRN.  
> It is 11 bifilar turns on an Amidon Balun core which I assume is the big  
> red T-200  
> one.  
> The TX feed (starting at the left....>>>>coil>>>) goes to ground  
> The antenna is connected...ground<<<<<coil <<<<< feedpoint  
>  
> I was curious if anyone had ever tried this and how does it work.  
> Sorry don't have a DigiCam or FAX machine here to put a  
> Picture on line.  
> 73 Pete NV4V  
  
Antenna  
  
  
Ground<<< <<<<<11 Turns<<<<<<<<<<<<<<<, , , ,!  
Toroid Core  
> TX>>>>>>>>>>>>>>>11 Turns >>>>>>>>>>>>>>>Ground  
> A clumsy attempt at a schematic . :-)
```

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Date: Wed, 11 Apr 2001 09:53:43 -0400
From: Maxime Prati <mprati@postech.ca>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [96143] [MH101] Value of L1.
Message-ID: <1184DDFC52DBD311AF510050DA799BB763D6DF@INTERNET-SERVER>
MIME-Version: 1.0
Content-Type: text/plain

Hi,

I try to follow each of the steps of the swl-30 project.
I read everything on the website of Chuck, K7Q0.
But, i think i missed something.
What is the value of L1 ?
It's the coil in the VF0 section.

I found that it was made of 29 turns of wire,
but on what kind of toroid ?

Thank you very much.

73 de VE2HAC

Maxime prati

"Duct tape is like the Force. It has a light side, a dark side, and it holds
the universe together...."

Date: Wed, 11 Apr 2001 10:14:07 -0400
From: Pete Burbank <plburbank@kih.net>
To: qrp-l@lehigh.edu
Subject: [96144] "Making verticals quieter" Correction
Message-ID: <5.0.2.1.0.20010411101130.00a7cec0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I used the word balun when I should of said transformer....Sorry
Pete NV4V

Date: Wed, 11 Apr 2001 09:08:35 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>
Subject: [96145] 45% Probability of SEVERE geomagnetic storm
Message-ID: <3AD46562.EB0E24@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Spaceweather.com reports that NOAA now estimates a 45% probability of
SEVERE geomagnetic storm at mid latitudes for both the next 24 hours
and 48 hours.

Check for possible Aurora tonight if you missed the last one.

73 de Dave, N0IT

Date: Wed, 11 Apr 2001 10:35:11 -0400

From: Pete Burbank <plburbank@kih.net>
To: Thomas Kuehl <ac7a@gci-net.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96146] Re: "Making Verticals Quieter"
Message-ID: <5.0.2.1.0.20010411102918.00a85800@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:07 PM 4/10/2001 -0700, Thomas Kuehl wrote:

>Pete,
>
>I know of what you speak. The article was written by Bob Crawford (W06I).
>I tried
>this some years back and it didn't seem to make any difference whatsoever
>in my
>vertical's noise level.

(SNIP)

Tom and group.
So far no one has responded with a "yes it works".
Maybe its like using Elephant Repellant :-) :-)
73 Pete NV4V

Date: Wed, 11 Apr 2001 09:30:44 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: phil@vaxxine.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96147] Re: "Making Verticals Quieter"
Message-ID: <3AD46A93.1ACE55F0@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

"Phil (VA3UX)" wrote:

>
> It doesn't quite make sense Pete. A vertical is an un balanced antenna and
> coax is an unbalanced transmission line, so a balun serves no purpose in
> this application. Perhaps it's actually an "unun" (unbalanced to
> unbalanced impedance transformer) that he's talking about in the article
> (?). Further, if inserting such a device attenuates QRN (vertically
> polarized noise), it probably also attenuates vertically polarized DX
> signals, which implies that his balun is just a lossy element inserted in
> series or parallel with the antenna. Does the article offer any
> explanation of theory of operation ?

I think the idea is to prevent pickup and transmission of noise by the shield on the coax. The shield should protect against noise and signal pickup along its length (e.g., screw up pattern on beams). Its similar to attempting to get rid of rfi by eliminating radiation along the shield from ground loops.

I guess this presupposes that the vertical is further away from noise sources such as house wiring than is the coax. If the antenna was sitting next to noise source than the whole process would be a waste of time and effort as you would still pickup the noise. For example on fifteen meters, my Cushcraft R5 which is right next to and over my home is noisier than my Butternut vertical ground mounted fifty or so feet away.

You could probably accomplish much the same by coiling six turns of coax near the antenna. Check Radio Works website for more information under line isolators.

73 de Dave, N0IT

Date: Wed, 11 Apr 2001 10:41:18 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'phil@vaxxine.com'" <phil@vaxxine.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96148] RE: "Making Verticals Quieter"
Message-ID: <078F21595FA7D411B87B00805FA728E64A46A6@atlexc02ntms.h boc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I do believe the point that was originally made points to the use of a shunt fed vertical is substantially less noisy than a series feed.
i.e. in mobile operation, I always use shunt feed.

Jerry
W3CDE

-----Original Message-----
From: Phil (VA3UX) [mailto:phil@vaxxine.com]
Sent: Wednesday, April 11, 2001 7:03 AM
To: Low Power Amateur Radio Discussion
Subject: Re: "Making Verticals Quieter"

It doesn't quite make sense Pete. A vertical is an un balanced antenna and coax is an unbalanced transmission line, so a balun serves no purpose in

Phil

>The subject is the title of a Tech Forum note in Ham Radio Jun 1983.

```
>It describes A !:1 Balun installed at the base of a vertical to reduce
local
```

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>It is 11 bifilar turns on an Amidon Balun core which I assume is the big
>red T-200
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>The TX feed (starting at the left....>>>>coil>>>> goes to ground

>

>Sorry don't have a DigiCam or FAX machine here to put a

>73 Pete NV4V

>

>

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> Toroid Core

> A clumsy attempt at a schematic . :-)

>

>

>

>

>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

If you check this out, you will see that the sun has a ghost in it. Sure looks like Casper the ghost head and eyes!!
http://sec.noaa.gov/solar_images/2001_04/2001_04_11.html Check bottom right corner picture 8-).

Jerry
W3CDE

-----Original Message-----

From: Paul Harden, NA5N [mailto:na5n@rt66.com]
Sent: Tuesday, April 10, 2001 7:34 PM
To: Low Power Amateur Radio Discussion
Subject: Solar activity 10APR01

Gang,
Today, region 9415 produced another major flare, this time an X2. The trajectory of the CME/shockwave will likely hit the earth fairly strongly, triggering MAJOR to SEVERE geomagnetic storming and enhanced auroral activity wednesday evening and thursday.

Our E and F layers are highly reflective from the ionizing radiation of this flare, so the higher bands, including 6 and 2M, are ripe for good propagation and sporadic E openings. The lower bands are actually in good shape as well, due to a quiet magnetic field. But this will change drastically tomorrow!

That's the summary ... details from commenting today's RSGA follows for those interested in more details.

72, Paul NA5N

> Joint USAF/NOAA Report of Solar and Geophysical Activity
> SDF Number 100 Issued at 2200Z on 10 Apr 2001

> IA. Analysis of Solar Active Regions and Activity from 09/2100Z
> to 10/2100Z: Solar activity remained at high levels. Region 9415
> (S23W19) produced a long-duration X2/3b parallel-ribbon flare at
> 10/0526 UTC. This flare was associated with a 4000 SFU Tenflare,

Solar flux is measured at 2880MHz, or 10cm, since most solar flares do not affect flux measurements at this frequency. When a flare *does* effect the 2880MHz solar flux measurements, it's called a TENFLARE.

Thus, today's solar flux shows an increase due to the X-class flare.

> Type II and IV radio sweeps,

These radio sweeps are the result of the particles in the CME passing through the magnetic field lines of the disturbance, producing radio energy. Escape velocity from the sun for a CME is about 350 km/sec. (This is why the "quiet" solar wind is about 350 km/sec.). By measuring the high vs. low frequencies of the Type I sweep following the flare, the velocity of the CME can be determined, in addition to imaging from the SOHO satellite. In today's case, the CME/shockwave from the X2 flare was estimated at an astounding 2000 km/sec. (The highest I know of this solar cycle). This means it will hit the earth around 1000 km/sec., triggering a major to severe geomagnetic storm when it gets here.

And speaking of when it gets here ... with such a velocity, it will probably arrive late wednesday or early thursday. If it hits late wednesday, say a bit before midnight, it will undoubtedly trigger some dramatic auroral displays into the middle latitudes over North America. (in addition to triggering a dramatic geomagnetic storm!).

I will post an update towards the end of tomorrow's UTC day with the latest estimates of auroral activity.

This X2 flare occurred from region 9415, which is very near the center of the sun, but in the southern hemisphere (typical location for large active regions AFTER the solar maximum or when the magnetic polarity of the sun "flips."). To see where this region (or any active region) on the sun is, goto:

<http://www.solar.ifa.hawaii.edu/ARMaps/Today/latest.gif>

If the region spawning the flare is within a window about 30 degrees from the center of the sun, the CME will likely strike the earth. The closer it is to the center, the more directly we will be hit. 9415 is in the southern hemisphere and about 20 degrees to the west, so we will not be hit directly, but we'll still sustain a pretty good hit!

> IB. Solar Activity Forecast: Solar activity is expected to be at moderate to high levels. Region 9415 is expected to produce another major flare during the period.

> IIA. Geophysical Activity Summary 09/2100Z to 10/2100Z:
> Geomagnetic field activity ranged from quiet to active levels. A greater than 10 MeV proton event followed today's X2/3b flare.

These are energetic protons (particles) being flung our way at about the speed of light, acting as ionizing radiation to the E and F layers,

and extending down to the D-layer near the polar regions. This later effect will cause enhanced attenuation to HF signals in the higher latitudes ... known as a Polar Cap Absorption event (PCA). See below.

- > A polar cap
- > absorption (PCA) event began around 10/1200 UTC and continued as the
- > period ended. Thus far, maximum absorption associated with the PCA
- > event has been estimated at 8.5 dB.

Remember, 3dB is absorbing HALF your signal power, so 8.5dB is sucking up a fair amount of your signal, making HF communications difficult to impossible. It appears as an HF blackout, due to the high absorption, in the higher latitudes.

- > IIB. Geophysical Activity Forecast: A major geomagnetic storm is
- > expected during 11 - 12 April in response to halo-CMEs observed on
- > 09 - 10 April. Active to major storm levels are expected during this
- > disturbance with brief severe storm levels possible at high
- > latitudes. Unsettled to minor storm levels are expected on 13 April
- > as the storm subsides.

We have the CME from today's X2 flare heading towards us, in addition to at least one more from the M-class flare on the 9th. Each arrival will disturb our magnetic field, with the one from the X2 clearly the most threat.

- > The greater than 10 MeV proton event is
- > expected to continue through most of the period. The PCA event is
- > expected to end during the latter half of the period.

The proton event will keep the PCA absorption high for the next two or three days, making HF communications very difficult for central Canada and higher.

- > III. Event Probabilities 11 Apr-13 Apr
- > Class M 80/80/80
- > Class X 25/25/25 <---- a fairly high odds of more major flares
- > Proton 90/80/25
- > PCAF In Progress <---- the PCA event in progress now.

- > IV. Penticton 10.7 cm Flux
- > Observed 10 Apr 170 <--- again, a bit elevated due to today's
- TENFLARE.

- > V. Geomagnetic A Indices
- > Observed Afr/Ap 09 Apr 017/019
- > Estimated Afr/Ap 10 Apr 013/009
- > Predicted Afr/Ap 11 Apr-13 Apr 050/040-050/090-020/030
- ^^^^^^ ^^^^^^^ ^^^^^^^

WED THURS FRI

Predicting MAJOR storm levels WED
and SEVERE STORM levels THURS.

Date: Wed, 11 Apr 2001 10:43:02 -0500
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: qrp-l@lehigh.edu
Subject: [96150] Re: "Making Verticals Quieter"
Message-ID: <4.3.2.7.2.20010411103954.00b5d440@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

A curious approach, indeed. I'll have to try it. However, another approach is the folded monopole?

Ed, N5EM

At 10:43 PM 4/10/01 -0400, you wrote:
>The subject is the title of a Tech Forum note in Ham Radio Jun 1983.
>It is by Robert Crawford WA6RYZ
>It describes A !:1 Balun installed at the base of a vertical to reduce local
>QRN.
>It is 11 bifilar turns on an Amidon Balun core which I assume is the big
>red T-200
>one.
>The TX feed (starting at the left....>>>>coil>>>> goes to ground
>The antenna is connected...ground<<<<<coil <<<<< feedpoint

Date: Wed, 11 Apr 2001 11:48:41 -0400 (EDT)
From: Brien Pepperdine <pepperb@gov.on.ca>
To: qrp-l@lehigh.edu
Subject: [96151] [M101] - Canadians and MOUSER parts procurement?
Message-ID: <Pine.OSF.4.05.10104111137030.31916-100000@govonca2.gov.on.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Fellow Canadian members of the Manhattan Project:
I was shocked this morning to find out from a List posting that Mouser
NOW has a 100 dollar minimum order to Canada. Apparently a policy in

effect for a year now (which shows you how long I have been building my house addition rather than home brewing). Sad news indeed, our loss. Their loss too, even if qrp peanut sales levels. Too bad, since they were instrumental in getting almost every part for my NorCal 40 I did from catalog parts lo those many years ago. Very responsive and helpful they were.

OK - DigiKey does not have IF transformers - I called them and checked.
OK - not to fret, yet.

I do have a family contact in the USA who will be there for a few weeks yet, but will be coming back to work in Canada for the summer so cannot respond if action is not carried out soon.

IF IF IF we can can find out who in Canada wants to get the necessary Manhattan 101 SWL30 parts from MOUSER, I can probably order them all as required and have them re-mailed or brought up when they return up here.

We have to act fast - I looked at Chuck Adam's home page for the parts list and I think I can get most of it locally in Toronto if I had to (still not sure about the IF transformers yet), but if we want certainty we can just order off of Chuck's list and call it as 'correct' as from Mouser parts numbers.

I still don't know if some variations are to be expected as Chuck contemplates some changes/adds to Dave Benson's design.

Any response from Canadians or those in the Manhattan Project group would be appreciated so the possible ordering for Canadian importation of necessary Mouser product can happen would be appreciated.

Email me directly but copy the list for any relevant general info on variations or digressions from the Adams/Benson standard list.

Merci/Thanks

Brien Pepperdine
Amateur Radio Station VE3VAW
Toronto, Ontario Canada
ARCI QRP #8773 - NORCAL QRP "ZOMBIE"

-Information and comments herein are mine own and are separate and independent of the electronic information gateways, pathways and provider(s) utilized-

Date: Wed, 11 Apr 2001 11:25:53 +0000

From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [96152] HB sheet metal brake
Message-ID: <200104111558.f3BFwgk21222@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I've always wanted a sheet metal brake to make little custom metal boxes for projects, but never seemed to be able to justify going out and buying one. So, I finally got around to building a crude, but effective brake from some stuff found at the local hardware store.

I bought a 3 foot length of 1" "weldable" steel angle iron, a pair of 1" hinges and some 10-24 x 3/4" nuts and bolts.

Cut the angle iron in half. Place the two pieces together to form a "T". Drill holes to attach the hinges at each end, on top of the "T". Drill the holes in the piece of angle iron which will pivot large enough to allow adjusting the spacing between the two pieces of angle iron for various thickness of material.

Now bolt one of the pieces of angle iron to the edge of a plywood board. You'll need a way to clamp the material to be bent, so, using a jig saw, I cut a slot behind the angle iron bolted to the plywood big enough to put a "C" clamp in. I went back to the hardware store and got a length of 1" x 1/8" flat steel to clamp over the material to be bent.

Eventually, I should have someone weld a handle onto the angle iron, but for now, I'm using an 8" adjustable wrench for a handle.

I've bent a few pieces of thin steel and aluminum for practice and it works FB. I was able to do a decent 90 degree bend in 1/8" aluminum and 1/8" soft steel. I should now be able to make boxes like those used for the NC-20 and SST. Good deal! Total investment, less than \$10 and a few hours of time.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 11 Apr 2001 16:06:39 -0000
From: "Ed Juge/NM" <ed@juge.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [96153] Re: "Making Verticals Quieter"
Message-ID: <005f01c0c2a1\$be49ba80\$2ddddead8@v300>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi, Pete...

This sounds like a wonderful plan to me. I have a Hy-Gain Hy-Tower (actually, two of them). If you could see the arc coming off the coax connector during some types of atmospheric conditions, you would appreciate the appeal of letting a balun put the antenna at ground potential. Nearby man-made noise would not be reduced, I'm sure. Thankfully, I'm in an extremely quiet location, so I don't have a problem with man-made noise.

73... Ed, W5EJ

----- Original Message -----

From: "Pete Burbank" <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, April 11, 2001 2:35 PM
Subject: Re: "Making Verticals Quieter"

> At 11:07 PM 4/10/2001 -0700, Thomas Kuehl wrote:
> >Pete,
> >
> >I know of what you speak. The article was written by Bob Crawford (W06I).
> >I tried
> >this some years back and it didn't seem to make any difference whatsoever
> >in my
> >vertical's noise level.
>
> (SNIP)
> Tom and group.
> So far no one has responded with a "yes it works".
> Maybe its like using Elephant Repellant :-) :-)
> 73 Pete NV4V
>
>
>

Date: Wed, 11 Apr 2001 09:11:30 -0700 (PDT)
From: agtaylor@llnl.gov

To: qrp-1@lehigh.edu
Subject: [96154] MH101: A 40m variant of the K7Q0/SW30+ design?
Message-ID: <200104111611.JAA23242@poptop.llnl.gov>
MIME-Version: 1.0
Content-Type: TEXT/plain; CHARSET=US-ASCII

I am planning to make a 40m variant of the K7Q0 / SW30+ design. This is due to two reasons: 1) I already have a matched set of crystals for 3932 kHz (from a 40m Novice SST) and 2) I am not particularly taken by the 30m band. This post is to inquire to see if there are any others wishing to take a divergent approach to the MH101 thing. Please reply privately!

--

Allan G Taylor

agtaylor@llnl.gov

Date: Wed, 11 Apr 2001 09:12:21 -0700
From: Russ Dow <n7dw@pacbell.net>
To: mprati@postech.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96155] Re: [MH101] Value of L1.
Message-ID: <3AD48265.F111A89E@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi Maxime,

L1 is a T-50-6, 0.50 inch outside diameter. Mine is color coded yellow, but I don't know if that is standard for all vendors. The parts list in Dave's SW30+ kit specifies 29 turns of #24. The value in uH is not given.

I am following the kit path, since I already have the kit. Also I am following the Elmer 101 material, which was my original intention. Lots of reading, hopefully some renewed understanding. I used to know this stuff as a Novice, back in the "hollow state" days...

NOTE: If anybody else is building Dave's SW30+ kit following Chuck's instructions, I just received an e-mail from Chuck. I asked if L1 was inadvertently missing from his instructions for the VF0. He replied that he will check

and include it. Now back to the bench. I'm having a great time, and L1 awaits!

72,
Russ N7DW

Maxime Prati wrote:

>
> Hi,
>
> I try to follow each of the steps of the swl-30 project.
> I read everything on the website of Chuck, K7Q0.
> But, i think i missed something.
> What is the value of L1 ?
> It's the coil in the VFO section.
> I found that it was made of 29 turns of wire,
> but on what kind of toroid ?
>
> Thank you very much.
>
> 73 de VE2HAC
> Maxime prati
> "Duct tape is like the Force. It has a light side, a dark side, and it holds
> the universe together...."

Date: Wed, 11 Apr 2001 11:14:58 -0500
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: qrp-l@lehigh.edu
Subject: [96156] FS: Drake 2880 Downconverters
Message-ID: <4.3.2.7.2.200104111104837.00c4e200@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Not exactly QRP - except that most satellite work is at QRP levels.

I have eight (8) Drake 2880 downconverters available. These receive 2.4 ghz. and are used to downconvert to 144 mhz. You would need to buy the crystal and make the mods.

These things are really hard to come by and are getting really scarce. I wanted to provide the QRP fraternity with a chance at them before getting mobbed by the Amsat guys.

\$45, which included shipping to your US address. Please, no one outside of the USA.

If you are interested in conversion info check out the following URLs.

<http://members.aol.com/k5oe/> and select A040 Antennas, Drake 2880 mods.

<http://www.din.or.jp/~m-arai/sband/convmode.htm>

<http://www.qsl.net/g3pho/drake.htm>

I know that some of our QRPers are avid satellite chasers as well. Thanks for your patience. Now back to our regularly scheduled QRP discussions.

Ed Manuel, N5EM
n5em@amsat.org

Date: Wed, 11 Apr 2001 09:39:46 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [96157] QRP levels for VX5R & ADMS1E?
Message-ID: <131CE266CAD0D211B3550008C7C9A2D5321850@arcadia-pd1.ci.arcadia.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Thought not strictly HF QRP, I am trying to get ADMS1E (Programming software)
to work on a VX5R so I can get the TX power level WAY down.

I'd appreciate some off-list help in getting the software to work.

TIA
Jay Coote
W6CJ

Date: Wed, 11 Apr 2001 12:22:02 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: pepperb@gov.on.ca
Cc: qrp-l@lehigh.edu
Subject: [96158] Re: [M101] - Canadians and MOUSER parts procurement?
Message-ID: <200104111654.f3BGstk08498@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> OK - DigiKey does not have IF transformers - I called them and checked.
> OK - not to fret, yet.
>
Yes, Digi-Key does have 10.7 MHz IF transformers.

The Toko 154AC-4700072N0, Digi-Key # TK1237 looks to be about as close to the Mouser 43IF123 they have. One major difference, the Toko's are \$2.41 each, as opposed to \$0.79 for the Mouser's.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 11 Apr 2001 12:57:12 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96159] RE: HB sheet metal brake
Message-ID: <078F21595FA7D411B87B00805FA728E64A46AB@atlexc02ntms.h boc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Now, if someone could come up with a reasonably priced shear, we could be in good shape... Has anyone seen one anywhere??

Jerry
W3CDE

-----Original Message-----
From: Steven Weber [mailto:kd1jv@moose.ncia.net]
Sent: Wednesday, April 11, 2001 7:26 AM
To: Low Power Amateur Radio Discussion
Subject: HB sheet metal brake

I've always wanted a sheet metal brake to make little custom metal boxes for projects, but never seemed to be able to justify going out and buying one. So, I finally got around to building a crude, but effective brake from some stuff found at the local hardware store.

I bought a 3 foot length of 1" "weldable" steel angle iron, a pair of 1" hinges and some 10-24 x 3/4" nuts and bolts.

Cut the angle iron in half. Place the two pieces together to form a

"T". Drill holes to attach the hinges at each end, on top of the "T". Drill the holes in the piece of angle iron which will pivot large enough to allow adjusting the spacing between the two pieces of angle iron for various thickness of material.

Now bolt one of the pieces of angle iron to the edge of a plywood board. You'll need a way to clamp the material to be bent, so, using a jig saw, I cut a slot behind the angle iron bolted to the plywood big enough to put a "C" clamp in. I went back to the hardware store and got a length of 1" x 1/8" flat steel to clamp over the material to be bent.

Eventually, I should have someone weld a handle onto the angle iron, but for now, I'm using an 8" adjustable wrench for a handle.

I've bent a few pieces of thin steel and aluminum for practice and it works FB. I was able to do a decent 90 degree bend in 1/8" aluminum and 1/8" soft steel. I should now be able to make boxes like those used for the NC-20 and SST. Good deal! Total investment, less than \$10 and a few hours of time.

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 11 Apr 2001 13:01:09 -0400
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-l@Lehigh.EDU
Subject: [96160] Re: [MH101] Digi-key vs Mouser
Message-ID: <3AD48DD5.EC1061CA@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

See also Dan's Small Parts at:
<http://www.fix.net/jparker/dans.html>
See last item under "IF Transformers".

Date: Wed, 11 Apr 2001 13:01:30 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Cc: "NJQRP" <NJQRP@njqrp.org>

Subject: [96161] Atlanticon Proceedings available
Message-ID: <000a01c0c2a9\$49ad9c70\$27a6accf@ghlpt4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, the dust has settled from an exciting back-to-back couple of QRP weekends ... Atlanticon and Arkiecon were both fabulously fun and successful for those who were able to make it.

We actually have copies left over of most of the Atlanticon speaker presentations ... with permission of the presenters, we're selling off these remaining Proceedings for \$10 postpaid. Send check of MO to the usual place (my address below) or even easier by using PayPal (www.paypal.com and direct payment to my email address n2apb@amsat.org).

Here's the contents of the papers available in the Atlanticon Proceedings:

"Test Equipment (that doesn't cost a mint)"
by Tony Fishpool, G4WIF, and Graham Firth, G3MFJ

"Manhattan Building - Islands of Copper and Skyscrapers"
by Chuck Adams, K7QO (brief outline only)

"Microvolt Signal Generator"
Joe Everhart, N2CX

"Into the Bush with the Wyoming Valley QRP Commandos"
Rich Arland, K7SZ

"Appalachian Trail Operating"
Ron Polityka, WB3AAL

"Genesis of the 4017 Transverter"
Jim Kortge, K8IQY

72, George N2APB
n2apb@amsat.org

George Heron, N2APB
2419 Feather Mae Court
Forest Hill, MD 21050

Date: Wed, 11 Apr 2001 13:12:47 +0100
From: "Ronald A. Pfeiffer" <Ronald_A_Pfeiffer@res.raytheon.com>
To: qrp-l@lehigh.edu
Subject: [96162] SECOND NEQRP SSB NET SUCCESSFUL!
Message-ID: <3AD44A3F.42A70924@res.raytheon.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Second NEQRP SSB NET was held last night at 7:00PM on
7.284. Moved to avoid Broadcast stations.
All could hear each other and thanks to all checkins:

N1XTK	Keith	Tolland	CT	FT817	
G5RV					
W1KRT	Ken	Springfield	NH	IC-746	
EndFed 100' wire					
WB1HBE	John	Chelmsford	MA	IC-746	G5RV
N1QPR	Bill	Acton		MA	FT-1000MP
OffCtr fed dipole					
K1CL	Chuck	Chelmsford	MA	FT-840	
Vertical loop					
KD1YV	Jim	Bethel		CT	IC-751A
G5RV					
W1CFI	Paul	Cape Cod	MA	FT-707	
G5RV					
Net Control:	N1ZSW	Ron	Worcester	MA	K2 window in attic

Well as seen above, the most popular antenna is the G5RV. The band
was co-operating so we had two rounds on the check-in list.

Everyone please join us next week!

ROn - N1ZSW

Date: Wed, 11 Apr 2001 12:42:22 -0600
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@Lehigh.EDU>
Subject: [96163] Shack Cleaning
Message-ID: <000901c0c2b7\$2642f560\$7fdf070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A while ago I listed the below items but had a family emergency the same day and had to leave for while so will list them again Icom 735 with electronic keyer installed pwr cord mike manual original box \$500.00, QRP+ revision #3 mike pwr cord manual original box \$450.00 MFJ 9020 Revision #3, manual pwr cord and MFJ 971 tuner as a pkg only for \$150.00, Palomar swr/pwr meter model 827 \$50.00

Date: Wed, 11 Apr 2001 14:49:56 +0100
From: "Ronald A. Pfeiffer" <Ronald_A_Pfeiffer@res.raytheon.com>
To: qrp-l@lehigh.edu
Subject: [96164] WTD: ARRL HANDBOOK, QST, etc
Message-ID: <3AD46104.BBD65165@res.raytheon.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Feeling nostalgic: Looking for the ARRL Handbook for 1944 and 1959.
QST issue June, 1944 and Nov, 1959.

Any one with info please email me directly.

RON - N1ZSW

Date: Wed, 11 Apr 2001 13:47:30 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>
Subject: [96165] Aurora
Message-ID: <3AD4A6C2.A67018F7@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

As of 1600z it appears that two shocks have arrived. At 1800z, WWV reported K = 8. If this holds up, it should be sufficient to bring aurora down over mid latitudes.

Currently, northern Europe and Asia is experiencing radio aurora conditions (probably visual as well). Some Northern USA stations as far

north as Chicago have also reported hearing a brief auroral enhancement on two meters.

If you are intersted in aurora and have never seen one live at your location, tonight might be a good time to try. If you operate 6 or 2 meters, tonight will probably be a good time to get your key out and operate a little cw.

GL de Dave, N0IT

Date: Wed, 11 Apr 2001 11:58:45 -0700
From: Jeff Stai WK6I <jstai@home.com>
To: sjolin@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96166] Re: Aurora
Message-ID: <3AD4A965.514B357A@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave Sjolin wrote:

>

> If you are intersted in aurora and have never seen one live at your
> location, tonight might be a good time to try. If you operate 6 or 2
> meters, tonight will probably be a good time to get your key out and
> operate a little cw.

yup - and if you are in RI, NJ, DE, WV, KY, SD, IA, MO, or AR - please
do get on 6m so I can work ya!-) - jeff wk6i

--
jeff stai
radio stuff: WK6I in DM13
rocket stuff: NAR #21059 TRA #3356 Level 2 Cert.
email: jstai@home.com or wk6i@arrl.net
ROC web page: <http://www.rocstock.org/>
LDRS web page: <http://www.ldr20.org/>

Date: Wed, 11 Apr 2001 16:31:43 -0400
From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [96167] KG4FSN/VE7
Message-ID: <029601c0c2c6\$6c180300\$5e35f2d8@juan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

I'm going to be in Vancouver from May 3rd till May 6th.
I'm planning in having with me my NW - 20 for trying to have some QSOs from the hotel.
Also if there is anyone interested in an eyeball QSO please e- mail me directly.

72
Juan - KG4FSN

Date: Wed, 11 Apr 2001 20:40:26
From: "Brad Hernlem" <aliebernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [96168] Regen Schematics
Message-ID: <F150CVY14maEqxGGmNN00001600@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi,

I've added schematics for the two regenerative receivers on my page in case anyone is interested:

<http://www.geocities.com/aliebernlem/Radio/regens.html>

Brad

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 11 Apr 2001 16:48:54 -0400

From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: <keng@moscow.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96169] RE: Kits...
Message-ID: <GCECIJFJPOHMCKACOA0BOEIACHAA.jakecart@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Ken -- W7EKB:

You might take a look at the Ten Tec board kits. They have a DC receiver for \$30 and a regen for \$24. I built the DC receiver for 30m -- works great. The kits are very nicely done -- nice boards, clear instructions and all the parts are there (no enclosures included -- but you get a good deal on the Ten Tec cases if you buy a kit).

The URL for the kits is: <http://www.tentec.com/rcvrkit.htm#1056store>

Good luck,

Jake -- N4UY

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Kenneth G. Gordon
Sent: Wednesday, April 11, 2001 12:04 AM
To: Low Power Amateur Radio Discussion
Subject: Kits...

I am teaching a small group of teenagers a bit about electronics. Some of them have ham licenses (Tech Pluses) and others are very interested in getting licenses.

I am thinking that an excellent project for them would be either a single-band (probably 40 meters) DC receiver or QRP transmitter, or both, or perhaps, if they can afford it, a single-band transceiver.

I have looked at Vectronics (MFJ?), and Milestone Technologies (MTECH?), and was fairly impressed with both, but don't know much about them. I also looked at Ramsey, but am not so sure about their stuff.

I have heard of Small Labs and another which escapes me at the moment, but don't have their addresses or URLs.

I am asking for suggestions and help from the list.

vy 73,

Ken Gordon W7EKB

Date: Wed, 11 Apr 2001 16:56:04 -0400
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: <jakecart@ix.netcom.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96170] Re: Kits...
Message-ID: <011801c0c2c9\$d37a5a40\$4806b3d8@obvious>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'll offer a strong "second" to that !

You can probably even negotiate a better deal with Ten-Tec for a "club" deal.

You can probably get a good buy on the enclosures, too.

73,
Dick K2JQ

Date: Wed, 11 Apr 2001 13:58:00 -0700
From: <schoon@amgt.com>
To: <qrp-1@Lehigh.EDU>
Subject: [96171] OT: Vacationing in San Juan Islands - W7 Land - 04/15-4/19
Message-ID: <c=US%a=_%p=American_Geotech%1=AG-CALCITE-BDC-010411205800Z-171@ag-basalt-pxy.amgt.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thanks for reading!

I will have SW-40+, and various wire antennas as well as VX5. Will mostly monitor the 2m/440 repeater on Friday Harbour which is in San Juan County according to the latest ARRL Repeater Guide. Most HF work

will be done in the later evenings - 2030 PDST. I'm pretty sure this is an IOTA island and will QSL. If you wan't a sked, I can do my best, but you need to set it up before I leave on 04/13 because I won't be checking email after that date!

72

.mark

| Unix, MS-DOS, Windows.
| Also known as The Good, The Bad
| And the Ugly...

Date: Wed, 11 Apr 2001 14:41:54 +0100
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-1@Lehigh.EDU
Subject: [96172] [MH101] SW-30+ L1 value
Message-ID: <5.0.2.1.0.20010411143550.00a27c30@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I must have missed it in the write up and for that I apologize.
When you do something on the web 6,000,000,000 people get to see
you mess it up..... :-)

L1 is 29 turns of #24 magnetic wire on a T50-6 (0.5" diameter yellow toroid, the biggest one in the kit). And if you aren't using the kit then it still may be the biggest one you bought. :-)

Hmmm Grasshopper Maxime. Are building now using Manhattan style? How did you know where to put the VFO on the PC board?

I completed the SW-30+ kit last night, i.e. all the parts on the board. I have a problem. The receiver is much hotter than the previous SW-30+ so time will tell what the difference is. I'll have to come back with a post-build reverse engineering to find out what part(s) made the difference.

I'll build a case for it today and get it together after I run off here and teach some Thermodynamics. It is an interesting Universe we live in.

PhD Exam. Define a Universe. Give me two examples of same.....

FYI

Chuck Adams, K7QO CP-60
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo> <http://moon.pr.erau.edu/~adamsc>

TMPS-2001 April 10th, 2001 Q's = 431 States = 47 Counties = 342 DXCC = 14
SWL-30 with CMOS 3 keyer and Code Warri0 0.500W and vee-beam

States Needed AK DE VA

DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8 EA7

Date: Wed, 11 Apr 01 22:36:00 +0400
From: Oleg Borodin <Oleg.Borodin@p11.f35.n5036.z2.fidonet.org>
To: qrp-l@lehigh.edu
Subject: [96173] QRP kit from RV3GM arrived
Message-ID: <987032172@p11.f35.n5036.z2.ftn>

RC> From: Richard Clem <clem.law@usa.net>
RC> I think I had mentioned on this list a couple of weeks ago that I
RC> ordered one of the micro-80 kits that Oleg Borodin, RV3GM, had posted
RC> about a while back.

Some kits are available yet.

RC> I was at Radio Shack picking up some other items, and for \$3,
RC> portion of the band, but for \$3, I decided to order this one, get the
RC> thing working, and then worry about finding a crystal for a better
RC> frequency.

The nice xtals on QRP-freqs are available at KANGA-Products (all freq's),
but too expensive I think, abt \$10 (?).

RC> I'll post again when (if?) I get it working, but I just wanted to let
RC> everyone know how fast Oleg shipped out the kit.

Thank you, Rick, but this is not I'm fast, really, it's a POST fast, Hi!
Sometime, there is a long time post-way, 5-6 weeks 8-(, I don't know - why?

Good luck!

eng. Oleg V. Borodin 11 April 2001 23:24
... God keep & bless you...

Date: Wed, 11 Apr 2001 17:26:59 -0400
From: "Anthony A. Luscre" <aluscre@neo.rr.com>
To: jakecart@ix.netcom.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [96174] Re: Kits...
Message-ID: <200104112124.f3BL0Zf18936@clmboh1-smtp3.columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I used an empty VCR tape box for the TT Regen, it worked great and was free.
Have pictures I can e-mail if interested

"John L. \"Jake\" Carter" wrote:

> Ken -- W7EKB:
>
> You might take a look at the Ten Tec board kits. They have a DC receiver
> for \$30 and a regen for \$24. I built the DC receiver for 30m -- works
> great. The kits are very nicely done -- nice boards, clear instructions and
> all the parts are there (no enclosures included -- but you get a good deal
> on the Ten Tec cases if you buy a kit).
>
> The URL for the kits is: <http://www.tentec.com/rcvrkit.htm#1056store>
>
> Good luck,
>
> Jake -- N4UY
>
> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
> Kenneth G. Gordon
> Sent: Wednesday, April 11, 2001 12:04 AM
> To: Low Power Amateur Radio Discussion
> Subject: Kits...
>
> I am teaching a small group of teenagers a bit about electronics. Some of
> them have ham licenses (Tech Pluses) and others are very interested in
> getting licenses.
>
> I am thinking that an excellent project for them would be either a

> single-band
> (probably 40 meters) DC receiver or QRP transmitter, or both, or perhaps, if
> they can afford it, a single-band transceiver.
>
> I have looked at Vectronics (MFJ?), and Milestone Technologies (MTECH?),
> and was fairly impressed with both, but don't know much about them. I also
> looked at Ramsey, but am not so sure about their stuff.
>
> I have heard of Small Labs and another which escapes me at the moment,
> but don't have their addresses or URLs.
>
> I am asking for suggestions and help from the list.
>
> vy 73,
>
> Ken Gordon W7EKB

--
|-----|
Anthony A. Luscre
K8ZT
Stow, Ohio
|-----|

Date: Wed, 11 Apr 2001 17:36:42 -0400
From: Tom & Roxanne <zikot@erie.net>
To: jstai@home.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96175] Re: Aurora
Message-ID: <3.0.5.32.20010411173642.007e8530@erie.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am copying what sounds like a beacon on 50.064 here in
Erie, PA. with strong Aurora. I can't make out the call
sign because the signal is too far down in the noise.

I just wanted to pass this along.

Unfortunatley I am not setup for 6m yet.

At 11:58 AM 4/11/01 -0700, Jeff Stai WK6I wrote:

>
>

>Dave Sjolín wrote:
>>
>
>> If you are intersted in aurora and have never seen one live at your
>> location, tonight might be a good time to try. If you operate 6 or 2
>> meters, tonight will probably be a good time to get your key out and
>> operate a little cw.
>
>yup - and if you are in RI, NJ, DE, WV, KY, SD, IA, MO, or AR - please
>do get on 6m so I can work ya!-) - jeff wk6i
>
>--
>jeff stai
>radio stuff: WK6I in DM13
>rocket stuff: NAR #21059 TRA #3356 Level 2 Cert.
>email: jstai@home.com or wk6i@arrl.net
>ROC web page: <http://www.rocstock.org/>
>LDRS web page: <http://www.ldrs20.org/>
>
>
73's es gud DX!

Tom & Roxanne
WA1VAI
Erie, PA.

Date: Wed, 11 Apr 2001 15:36:09 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96176] Re: [MH101] SW-30+ L1 value
Message-ID: <Pine.SUN.4.10.10104111532530.18230-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 11 Apr 2001, Chuck Adams, K7Q0 wrote:
> ... after I run off here and teach some Thermodynamics.

> PhD Exam. Define a Universe.

Let's see, universe while teaching thermodynamics. Hmmm.

I got it! That "parcel of air" thing? Like a BIG parcel of air? :-)

72, Paul NA5N

Date: Wed, 11 Apr 2001 17:43:45 -0400
From: Tom & Roxanne <zikot@erie.net>
To: jstai@home.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96177] Re: Aurora
Message-ID: <3.0.5.32.20010411174345.007e7210@erie.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Copying W1ZC 58A on 144.114 in Erie, PA.

Passing along FYI. No 2m CW capability yet.
Wish my Icom IC706MKIIG was here today!! :(

At 11:58 AM 4/11/01 -0700, Jeff Stai WK6I wrote:

>
>
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>>
>
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>
>--
>jeff stai
>radio stuff: WK6I in DM13
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>email: jstai@home.com or wk6i@arrl.net
>ROC web page: <http://www.rocstock.org/>
>LDRS web page: <http://www.ldr20.org/>
>
>
73's es gud DX!

Tom & Roxanne
WA1VAI
Erie, PA.

End of QRP-L Digest 2156

